PTO-1390 (Rev. 07-2005)
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TRANSMITTAL LETTER TO		ATTORNEY'S DOCKET NUMBER 3749-0111PUS1						
DESIGNATED/ELECTED		U.S. APPLICATION NO HI KNOWN SEE CFR 1.5)						
CONCERNING A SUBMISSIO	INTERNATIONAL FILING DATE	PRIGRITY DATE CLAIMED						
INTERNATIONAL APPLICATION NO. PCT/JP2004/016297	4 November 2004	18 November 2003						
TITLE OF INVENTION	CENE METHOD FOR PREPAR	UNG HYDROYYI ATED CAROTENOID						
AND NOVEL GERANYLGERANYL PYF	ROPHOSHATE SYNTHASE	ING HYDROXYLATED CAROTENOID,						
APPLICANT(S) FOR DO/EO/US		Code NONATRALICULI and Maribile						
Yasuhiro NISHIDA; Kyoko ADACHI; Hiro MISAWA	oaki KASAI; Yoshikazu SHIZURI; :	Sadao KOMEMUSHI and Noriniko						
	es Designated/Elected Office (DO/EO/	US) the following items and other information:						
1. X This is a FIRST submission of items	s conceming a submission under 35 U.	S.C. 371.						
2. This is a SECOND or SUBSEQUEN	IT submission of items concerning a si	ubmission under 35 U.S.C. 371.						
This is an express request to begin include items (5), (6), (9) and (21) ir	national examination procedures (35 L ndicated below.	J.S.C. 371(f)). The submission must						
4. The US has been elected (Article 3	1).	·						
5. x A copy of the International Applicati	on as filed (35 U.S.C. 371 (c)(2))							
a. x is attached hereto (required onl	y if not communicated by the Internation	onal Bureau).						
b. has been communicated by the International Bureau.								
c. is not required, as the application	on was filed in the United States Recei	ving Office (RO/US).						
6. x An English language translation of t	he International Application as filed (35	5 U.S.C. 371(c)(2)).						
a. x is attached hereto.								
b. has been previously submitted	under 35 U.S.C. 154(d)(4).							
7. X Amendments to the claims of the In								
a. are attached hereto (required o	nly if not communicated by the Interna	tional Bureau).						
b. have been communicated by th	e International Bureau.							
c. have not been made; however,	the time limit for making such amendo	nents has NOT expired.						
d. x have not been made and will no	ot be made.							
8. An English language translation of t	he amendments to the claims under P	CT Article 19 (35 U.S.C. 371(c)(3)).						
9. An oath or declaration of the invente	or(s) (35 U.S.C. 371(c)(4)).							
10. An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	he annexes of the International Prelim	inary Examination Report under PCT						
Items 11 to 20 below concern docum	nent(s) or information included:							
11. x An Information Disclosure Statem	ent under 37 CFR 1.97 and 1.98.							
12. An assignment document for record	ting. A separate cover sheet in compli	ance with 37 CFR 3.28 and 3.31 is included.						
13. x A preliminary amendment.								
14. x An Application Data Sheet under 3	7 CFR 1.76.							
15. A substitute specification.								
16. A power of attorney and/or change	of address letter.							
17. A computer-readable form of the s	equence listing in accordance with Po	CT Rule 13ter.2 and 37 CFR 1.821 – 1.825.						
18. A second copy of the published Int	emational Application under 35 U.S.	C. 154(d)(4).						
19. A second copy of the English lang	uage translation of the international a	pplication under 35 U.S.C. 154(d)(4).						

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U.S. APPLICATION NO. (#kgown)-see 37 CFR1.89 INTERNATIONAL APPLICATION NO. PCT/JP2004/016297				ATTORNEY'S DOCKET NUMBER 3749-0111PUS1						
20. x Other items or information: Return Receipt Postcard PCT/ISA/210; PCT/IB/304; Ten Sheets of Formal Drawings and Twenty-five Sheets of Sequence Listings										
The fol	llowing fees	have beer	submitte	od .			CALCUI			TO USEONI V
l —	-			eu a))		\$300	S S	300.		PTO USEONLY
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22. X Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						\$ 200.00				
23. x Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)						\$ 400.00				
	•	21, 22 and 23					\$	900.	00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.										
Total Sheets	Extra Sheets			ch additional 50 or fraction RATE and up to a whole number)			I			
87 - 100 =	<u> </u>	/50 =				x \$250.00	\$			
after the date of o	commenceme	ent of the natio	ional stage	e, examination fee, or the (37 CFR 1.492(h)).	oath		\$	130.	00	
CLAIMS		NUMBER FI		NUMBER EXTRA	<u> </u>	RATE			- <u>-</u>	
Total claim		17 - 20			×	200 00		0.0		
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				TOTAL OF A	'BO	VE CALCULATIONS =	\$ 1,	,630.0)	~~~·
Applicant	t claims small (entity status.	See 37 Cf	FR 1.27. Fees above are	re rec	duced by 1/2.				
						SUBTOTAL =	\$ 1,	,630.0	00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					s from the earliest	\$				
					тот	AL NATIONAL FEE =	\$		1,	,630.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						\$				
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TOTAL FEES ENCLOSED =					FEES ENCLOSED =	\$		1,	630.00	
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AP20Rec'd PET/PTO 15 MAY 2006

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a. X A check in the amount of \$ 1,630.00 to cover the a	bove fees is enclosed.					
	amount of \$ to cover the above fees.					
C. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No02-2448 A duplicate copy of this sheet is enclosed.						
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038						
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not be filed an granted to restore the International Application to pending sta	een met, a petition to revive (37 CFR 1.137(a) or (b)) must be atus.					
SEND ALL CORRESPONDENCE TO:	SYSNATURE SYSNATURE					
CUSTOMER NUMBER: 02292 May 15, 2006 /smt	MaryAnne Armstrong, Ph.D.					
751110	40,069 REGISTRATION NUMBER					